

$\Omega_b(6350)^-$

$I(J^P) = ?(??)$ Status: *
I, J, P need confirmation.

NODE=B196

OMITTED FROM SUMMARY TABLE

 $\Omega_b(6350)^-$ MASS

NODE=B196M

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
6349.8±0.4±0.5	¹ AAIJ	20T LHCB	<i>pp</i> at 7, 8, 13 TeV

NODE=B196M

¹ AAIJ 20T measures $m(\Omega_b(6350)^-) - m(\Xi_b^0) = 557.98 \pm 0.35 \pm 0.05$ MeV. We have adjusted the measurement to our best values of $m(\Xi_b^0) = 5791.9 \pm 0.5$ MeV. Our first error is their experiment's error and our second error is the systematic error from using our best values.

NODE=B196M;LINKAGE=A

 $\Omega_b(6350)^-$ WIDTH

NODE=B196W

VALUE (MeV)	CL%	DOCUMENT ID	TECN	COMMENT
<3.2	95	AAIJ	20T LHCB	<i>pp</i> at 7, 8, 13 TeV

NODE=B196W

 $\Omega_b(6350)^-$ DECAY MODES

NODE=B196215;NODE=B196

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \Xi_b^0 K^-$	seen

DESIG=1

 $\Omega_b(6350)^-$ BRANCHING RATIOS

NODE=B196220

$\Gamma(\Xi_b^0 K^-)/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
seen	AAIJ	20T LHCB	<i>pp</i> at 7, 8, 13 TeV	

NODE=B196R01
NODE=B196R01 $\Omega_b(6350)^-$ REFERENCES

NODE=B196

AAIJ	20T PRL 124 082002	R. Aaij et al.	(LHCb Collab.)
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REFID=60534